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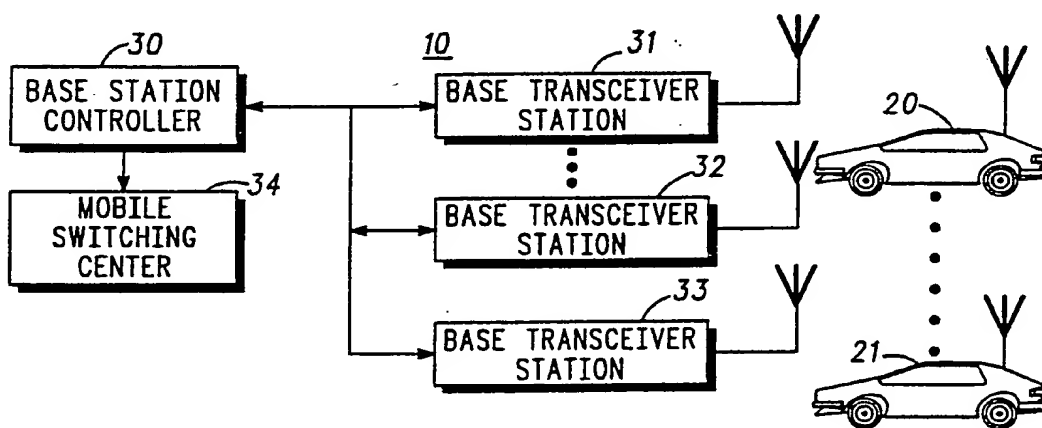
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(54) Title: **IMPROVED GSM INTERFERENCE BAND SELECTION AND REDUCED POWER HANDOVER**



(57) Abstract

A method is offered of achieving a desired C/I ratio within a cellular system, at reduced transmitter power levels, by measuring a signal loss on a downlink between a base site transmitter (31) and mobile receiver (20) and calculating an uplink signal magnitude at a base site receiver. A communication channel is then selected from a number of communication channels based upon comparison of the uplink signal magnitude with pre-measured interference levels of each channel of the number of channels to produce a desired C/I ratio.